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14 OCT 20M

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** 

(PCT Rule 71.1)

Date of Mailing

15 MAR 2004 (day/month/year) Applicant's or agent's file reference IMPORTANT NOTIFICATION Priority date (day/month/year) International filing date (day/month/year) International application No. PCT/US03/10341 04 April 2003 (04.04.2003) 08 April 2002 (08.04.2002) Applicant MERCK & CO., INC.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

### REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Mail Stop PCT, Attn: IPEA/US Commissioner for Patents

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Sulpence For

Form PCT/IPEA/416 (July 1992)



# **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

CT 21078Y ternational application No.					
CT/US03/10341					
PCT/US03/10341 04 April 2003 (04.04.2003) 08 April 2002 (08.04.2002) International Patent Classification (IPC) or national classification and IPC					
IPC(7): A61K 31/498; C07D 241/42. and US CI.: 514/249; 544/353.					
Applicant					
MERCK & CO., INC.					
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of $\frac{3}{2}$ sheets, including this cover sheet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of sheets.					
3. This report contains indications relating to the following items:					
3. This report contains indications relating to the following items:  I Sasis of the report II Priority III Non-establishment of report with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application  Date of submission of the demand  Date of completion of this report					
ate of submission of the demand					
20 October 2003 (20.10.2003)					
Name and mailing address of the IPEA/US					
Commissioner for Patents					
Alexandria, Virginia 22313-1450 acsimile No. (703) 305-3230					
C(7): A61K 31/498; C07D 241/42. an opticant  ERCK & CO., INC.  1. This international prelimin Examining Authority and in Examinin					

Form PCT/IPEA/409 (cover sheet)(July 1998)



	International application No.			
ĺ	PCT/US03/10341			

I.	I. Basis of the report			
1.	1. With regard to the elements of the international application:*			
	the international application as originally filed.			
	the description:			
	pages 1-72 as originally filed			
	pages NONE, filed with the demand			
	pages NONE, filed with the letter of	·		
	the claims:			
	pages 73-93, as originally filed			
	pages NONE , as amended (together with any st	atement) under Article 19		
	pages NONE , filed with the demand pages NONE , filed with the letter of			
		•		
	the drawings:			
	pages NONE , as originally filed pages NONE , filed with the demand			
	pages NONE , filed with the letter of			
	the sequence listing part of the description:	· · · · · · · · · · · · · · · · · · ·		
	pages 1-4 , as originally filed			
	pages NONE , filed with the demand			
	pages NONE, filed with the letter of	•		
2.	2. With regard to the language, all the elements marked above w			
	language in which the international application was filed, unles			
	These elements were available or furnished to this Authority in	the following language which is:		
	the language of a translation furnished for the purposes of	international search (under Rule23.1(b)).		
	the language of publication of the international application	(under Rule 48.3(b)).		
	the language of the translation furnished for the purposes 55.2 and/or 55.3).	of international preliminary examination(under Rules		
3.		With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the nternational preliminary examination was carried out on the basis of the sequence listing:		
	contained in the international application in printed form.			
	filed together with the international application in compute	er readable form.		
	furnished subsequently to this Authority in written form.			
	furnished subsequently to this Authority in computer read	able form.		
	The statement that the subsequently furnished written sequinternational application as filed has been furnished.	nence listing does not go beyond the disclosure in the		
	The statement that the information recorded in computer in has been furnished.	eadable form is identical to the written sequence listing		
4.	4. The amendments have resulted in the cancellation of			
	the description, pages NONE			
	the claims, Nos. NONE			
	the drawings, sheets/fig NONE			
5.		had not been made, since they have been considered to go		
* 1	beyond the disclosure as filed, as indicated in the Supplemental	Box (Rule 70.2(c)).**		
this	<ul> <li>Replacement sheets which have been furnished to the receiving Office in this report as "originally filed" and are not annexed to this report since th ** Any replacement sheet containing such amendments must be referred to</li> </ul>	ey do not contain amendments (Rules 70.16 and 70.17).		

Form PCT/IPEA/409 (Box I) (July 1998)

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/10341

citations and explanations supporting such statement						
1. STATEMENT						
Novelty (N) Claims 1-25	YES					
Claims NONE	NO					
Inventive Step (IS) Claims 1-25	YES					
Claims NONE	NO					
Industrial Applicability (IA)  Claims 1-25  Claims NONE	YES NO					
. Claims NONE	_110					
2. CITATIONS AND EXPLANATIONS  Claims 1-25 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the structural makeup of compounds claimed herein which require a mandatory sulfonylaminomethylene group on phenyl ring at 2-position.						
Claims 1-25 meet the criteria set out in PCT Article 33(4), and thus possess industrial applicability because the subject matter claimed can be made or used in industry. Description states compounds of invention are useful for treating cancers based on serine/threonine kinase inhibitory activity reported on p.70 of the description.						

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